

# WEST Search History

DATE: Tuesday, December 02, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	
<i>DB=PGPB,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
L11	L9 not l10	7	L11
L10	L9 and (barcode or "bar-code")	2	L10
L9	L8 and @ad<=19980529	9	L9
L8	(camera or (prox\$ with sens\$)) and shop\$ and (pda or portable or handheld or "hand-held") and remote\$	817	L8
<i>DB=JPAB,EPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
L7	(camera or (prox\$ with sens\$)) and shop\$ and (pda or portable or handheld or "hand-held") and remote\$	5	L7
L6	(prox\$ with sens\$) and shop\$ and (pda or portable or handheld or "hand-held") and remote\$	0	L6
<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
L5	L4 and (prox\$ with sens\$)	2	L5
L4	5664110.pn. or 6314406.pn.	2	L4
L3	L2 and l1	6	L3
L2	((705/26  705/27 )!.CCLS. )	1055	L2
L1	(prox\$ with sens\$) and shop\$ and @ad<=19980529	393	L1

END OF SEARCH HISTORY

## End of Result Set

Generate Collection  Print

L10: Entry 2 of 2

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041053  
 PGPUB-FILING-TYPE: new  
 DOCUMENT-IDENTIFIER: US 20010041053 A1

TITLE: CONTENT-ON DEMAND ADVERTISEMENT SYSTEM

PUBLICATION-DATE: November 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ABECASSIS, MAX	MIAMI	FL	US	

APPL-NO: 08/ 303158 [PALM]  
 DATE FILED: September 8, 1994

CONTINUED PROSECUTION APPLICATION: CPA

## RELATED-US-APPL-DATA:

Application 08/303158 is a continuation-in-part-of US application 07/832335, filed February 7, 1992, US Patent No. 6208805  
 Application 08/303158 is a continuation-in-part-of US application 08/002998, filed January 11, 1993, US Patent No. 5434678

INT-CL: [07] H04 N 5/91, H04 N 7/08

US-CL-PUBLISHED: 386/83; 386/92  
 US-CL-CURRENT: 386/83; 386/92

REPRESENTATIVE-FIGURES: 12B

## ABSTRACT:

A random access pointcast video delivery system provides the means for a viewer to select a video advertisement. The video advertisement is automatically customized responsive to the application of the viewer's video content preferences to a video segment map defining a plurality of video segments. The viewer is compensated for the verified apparent viewing of the selected advertisement independently of the purchase of the advertised product or service. Where the advertisement is associated with a credit, the viewing of the advertisement subsidizes the viewer's receipt of other video and communication services. Where a viewing of a video results in a purchase, a deposit in the purchase is automatically escrowed until after the buyer has received satisfactory delivery of the purchase.

[0001] This application is a continuation-in-part of pending U.S. patent application Ser. No. 07/832,335 filed Feb. 7, 1992; and a continuation-in-part of pending U.S. patent application Ser. No. 08/002,998 filed Jan. 11, 1993.

[0002] A portion of the disclosure of this patent document, including each of the drawings, contains material which is subject to copyright protection. The copyright owner has no objection to the facsimile reproduction by any one of the patent disclosures, as it appears in the Patent and Trademark Office patent files or records, but otherwise reserves all copyright rights whatsoever.

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L11: Entry 6 of 7

File: PGPB

Aug 16, 2001

PGPUB-DOCUMENT-NUMBER: 20010014167  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010014167 A1

TITLE: SECURITY CHECK PROVISION

PUBLICATION-DATE: August 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GIFFORD, MAURICE M	SUFFOLK		GB	
SEAL, CHRISTOPHER H	SUFFOLK		GB	
MCCARTNEY, DAVID JOHN	SUFFOLK		GB	

APPL-NO: 09/ 068151 [PALM]  
DATE FILED: May 14, 1998

CONTINUED PROSECUTION APPLICATION: CPA

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
EP	97301383.2	1997EP-97301383.2	March 3, 1997

## PCT-DATA:

DATE-FILED	APPL-NO	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
Mar 2, 1998	PCT/GB98/00638				

INT-CL: [07] G06 K 9/00

US-CL-PUBLISHED: 382/117  
US-CL-CURRENT: 382/117

REPRESENTATIVE-FIGURES: 4

## ABSTRACT:

Methods and apparatus for providing a security check are disclosed. Many conventional security checks require the recording or transmission of a user data sets associated with respective authorized users. A problem arises with these systems if the user data set becomes known by unauthorized persons. In order to address this problem the present invention proposes the recording or transmission of only part of the user data set in insecure sections of the system. For example, a security check preventing unauthorized remote access to a shared computer (20) is provided by capturing a user data set representing a user's iris, operating the user's personal computer (10) to select only a portion of the captured data set requested by the shared computer (20) and transmitting the portion along a telecommunications line (16). The shared computer (20) derives partial data sets from stored user data sets using a similar selection to that used by personal computer (10) and compares the partial data set it has derived with the partial data set transmitted by the personal computer (10) in deciding whether to grant access. Point-of-sale devices and cards recording only partial user data sets are also disclosed.

## End of Result Set

[Generate Collection](#) [Print](#)

L11: Entry 7 of 7

File: PGPB

Jul 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010007086  
 PGPUB-FILING-TYPE: new-utility  
 DOCUMENT-IDENTIFIER: US 20010007086 A1

TITLE: SYSTEM AND METHOD FOR DISTRIBUTED COMPUTER AUTOMOTIVE SERVICE EQUIPMENT

PUBLICATION-DATE: July 5, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ROGERS, STEVEN W.	CONWAY	AR	US	
GILL, GEORGE M.	VILONIA	AR	US	
DE BELLEFEUILLE, JEAN	BRUNSWICK	ME	US	
KLING, MICHAEL III	LITTLE ROCK	AR	US	
BAIRD, MICHAEL	LOS ALTOS	CA	US	

APPL-NO: 08/ 962023 [PALM]  
 DATE FILED: October 31, 1997

CONTINUED PROSECUTION APPLICATION: CPA

## RELATED-US-APPL-DATA:

Application 08/962023 is a continuation-in-part-of US application 08/857725, filed May 16, 1997, PENDING

INT-CL: [07] G06 F 19/00, G01 M 17/00

US-CL-PUBLISHED: 701/33; 707/10  
 US-CL-CURRENT: 701/33; 707/10

REPRESENTATIVE-FIGURES: 6

## ABSTRACT:

A computerized automotive service equipment system is adapted to access remotely located computer systems to retrieve or exchange data and/or software applications, or to undergo live or real-time and two-way interaction. The system and its components are dynamic with respect to both function and data, and can be easily updated or otherwise altered. The system of the present invention utilizes World Wide Web technology, which enables the use of universal and widely compatible programming tools and techniques for efficient and fast system development.

## RELATED APPLICATIONS

[0001] This application is a continuation-in-part of application Ser. No. 08/857725, assigned to the assignee herein, and is related to an application entitled, "Improved Computerized Automotive Service System," filed \_\_\_\_\_, Ser. No. \_\_\_\_\_, also assigned to the assignee herein, both of which are hereby incorporated by reference.

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 5 of 5 returned.** 1. Document ID: JP 2002345358 A

L7: Entry 1 of 5

File: JPAB

Dec 3, 2002

PUB-NO: JP02002345358A

DOCUMENT-IDENTIFIER: JP 2002345358 A

TITLE: SYSTEM FOR MONITORING PET AND REARING CONTAINER FOR PET

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
<a href="#">Draw Desc</a>	<a href="#">Clip Img</a>	<a href="#">Image</a>							KWIC

KWIC

 2. Document ID: JP 10191309 A

L7: Entry 2 of 5

File: JPAB

Jul 21, 1998

PUB-NO: JP410191309A

DOCUMENT-IDENTIFIER: JP 10191309 A

TITLE: MOVING IMAGE AND AUDIO DATA TRANSMITTER

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
<a href="#">Draw Desc</a>	<a href="#">Clip Img</a>	<a href="#">Image</a>							KWIC

KWIC

 3. Document ID: US 20030042314 A1

L7: Entry 3 of 5

File: DWPI

Mar 6, 2003

DERWENT-ACC-NO: 2003-439339

DERWENT-WEEK: 200376

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TITLE: Planar light illumination module for image-based bar code symbol reading/scanning system, has focusing lens which focuses laser beam emitted from visible laser diode mounted on end portion of housing, to preset focal point

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
<a href="#">Draw Desc</a>	<a href="#">Clip Img</a>	<a href="#">Image</a>							KWIC

KWIC

 4. Document ID: US 20030042303 A1

L7: Entry 4 of 5

File: DWPI

Mar 6, 2003

DERWENT-ACC-NO: 2003-342101

DERWENT-WEEK: 200376

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Compact planar laser illumination module of planar laser illumination and

imaging system, **uses** cylindrical lens for spatial modulation of laser radiated from visible laser diode to produce planar beam

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Clip Img	Image							

KWC

5. Document ID: JP 2001313931 A

L7: Entry 5 of 5

File: DWPI

Nov 9, 2001

DERWENT-ACC-NO: 2002-319877

DERWENT-WEEK: 200236

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Security provision method for shop, involves transmitting information about security condition of shop detected by camera to WWW server

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Clip Img	Image							

KWC

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Terms	Documents
(camera or (prox\$ with sens\$)) and shop\$ and (pda or portable or handheld or "hand-held") and remote\$	5

Display Format: - [Change Format](#)

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L7: Entry 1 of 5

File: JPAB

Dec 3, 2002

PUB-NO: JP02002345358A

DOCUMENT-IDENTIFIER: JP 2002345358 A

TITLE: SYSTEM FOR MONITORING PET AND REARING CONTAINER FOR PET

PUBN-DATE: December 3, 2002

INVENTOR-INFORMATION:

NAME

MIYATA, KOICHI

COUNTRY

KON, TSUTOMU

ASSIGNEE-INFORMATION:

NAME

RICOH CO LTD

COUNTRY

APPL-NO: JP2002000840

APPL-DATE: January 7, 2002

PRIORITY-DATA: 2001080953 (March 21, 2001)

INT-CL (IPC): A01 K 11/00; A01 K 1/01; A01 K 1/02; A01 K 5/02; H04 N 5/225; H04 N 7/18; H04 Q 9/00

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a system for monitoring a pet capable of monitoring and rearing the pet from a remote place even during the long-term absence.

SOLUTION: This system for monitoring the pet is provided with a server device 20 for monitoring the pet located in the remote place such as a pet shop or a pet hotel 2. The system is composed so as to rear the pet in a pet rearing container 14, install at least a camera 11 for monitoring the pet connected to a network 4 such as the Internet in the place and store (temporarily accumulate) an image or an animated image from the camera 11 for monitoring the pet with the server device 20. The pet rearing container 14 is equipped with a feeder 12. The conditions of the pet are monitored from a PDA 30a connected through the network 4 to the server device 20 and the feeder 12 is further controlled.

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L7: Entry 2 of 5

File: JPAB

Jul 21, 1998

PUB-NO: JP410191309A

DOCUMENT-IDENTIFIER: JP 10191309 A

TITLE: MOVING IMAGE AND AUDIO DATA TRANSMITTER

PUBN-DATE: July 21, 1998

## INVENTOR-INFORMATION:

NAME	COUNTRY
KAJIKI, NORIKO	

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
KK OFF NOA	

APPL-NO: JP08355402

APPL-DATE: December 24, 1996

INT-CL (IPC): H04 N 2/18; H04 N 5/232

## ABSTRACT:

PROBLEM TO BE SOLVED: To put remote supervision, management and control for each field into practice and to attain miniaturization of the portable transmitter at a low cost by sending an image signal from a camera and an audio signal from a microphone to a center equipment in real time by a digital communication means.

SOLUTION: Video signal input sections 3A-3D such as BNC connectors to wire video signal wires connected respectively to, e.g. four supervisory cameras installed to a shop side are placed on a printed circuit board 2 built in an image transmission terminal equipment main body 1. Furthermore, an 8-pin modular connector 4 is placed at a rear side of the BNC connector on the printed circuit board 2 and a line connector 5 as an ISDN communication line input output section or a DSVN communication line input output section is connected to the connector 4. Thus, the connector 5 is used for connection to an ISDN communication line or a DSVN communication line through which image, audio and data signals at the shop side are transferred to a supervisory center.

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L7: Entry 3 of 5

File: DWPI

Mar 6, 2003

DERWENT-ACC-NO: 2003-439339

DERWENT-WEEK: 200376

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**TITLE:** Planar light illumination module for image-based bar code symbol reading/scanning system, has focusing lens which focuses laser beam emitted from visible laser diode mounted on end portion of housing, to preset focal point

**INVENTOR:** GOOD, T A; KNOWLES, C H ; SCHNEE, M D ; TSIKOS, C J ; WIRTH, A ; ZHU, X

**PATENT-ASSIGNEE:** METROLOGIC INSTR INC (METRIN)

**PRIORITY-DATA:** 2001US-0990585 (November 21, 2001), 1999US-0327756 (June 7, 1999), 2000WO-US15624 (June 7, 2000), 2000US-0721885 (November 24, 2000), 2001US-0780027 (February 9, 2001), 2001US-0781665 (February 12, 2001), 2001US-0883130 (June 15, 2001), 2001US-0954477 (September 17, 2001), 2001US-0999687 (October 31, 2001), 2002US-0118850 (April 8, 2002)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030042314 A1	March 6, 2003		682	G06K007/10

**APPLICATION-DATA:**

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20030042314A1	June 7, 1999	1999US-0327756	CIP of
US20030042314A1	June 7, 2000	2000WO-US15624	CIP of
US20030042314A1	November 24, 2000	2000US-0721885	CIP of
US20030042314A1	February 9, 2001	2001US-0780027	CIP of
US20030042314A1	February 12, 2001	2001US-0781665	CIP of
US20030042314A1	June 15, 2001	2001US-0883130	CIP of
US20030042314A1	September 17, 2001	2001US-0954477	CIP of
US20030042314A1	October 31, 2001	2001US-0999687	CIP of
US20030042314A1	November 21, 2001	2001US-0990585	Cont of
US20030042314A1	April 8, 2002	2002US-0118850	

**INT-CL (IPC): G06 K 7/10**

**RELATED-ACC-NO:** 1992-132304;1993-117794 ;1993-188620 ;1993-243422 ;1994-271919 ;1996-010196 ;1996-087144 ;1996-231107 ;1996-433078 ;1997-212221 ;1997-271398 ;1997-319156 ;1997-341886 ;1997-434480 ;1998-322932 ;1998-322944 ;1998-322945 ;1998-361875 ;1998-398204 ;1998-446238 ;1998-466765 ;1999-010004 ;1999-044719 ;1999-152937 ;1999-214193 ;1999-244138 ;1999-443019 ;1999-477900 ;1999-493561 ;1999-539615 ;1999-619985 ;2000-037247 ;2000-072254 ;2000-086054 ;2000-115361 ;2000-236934 ;2000-524001 ;2000-524448 ;2000-532450 ;2001-031532 ;2001-102429 ;2001-181371 ;2001-256173 ;2001-265481 ;2001-280554 ;2001-281120 ;2001-366072 ;2001-450892 ;2001-521102 ;2001-589357 ;2001-601458 ;2002-048523 ;2002-054658 ;2002-146729 ;2002-256344 ;2002-338795 ;2002-381743 ;2002-393312 ;2002-414406 ;2002-425279 ;2002-518024 ;2002-519495 ;2002-546565 ;2002-588984 ;2002-589430 ;2002-616528 ;2002-759278 ;2003-038469 ;2003-038988 ;2003-045938 ;2003-056784 ;2003-208755 ;2003-255786 ;2003-310964 ;2003-331095 ;2003-331096 ;2003-342101 ;2003-353143 ;2003-353379 ;2003-370511 ;2003-402355 ;2003-402356 ;2003-416920 ;2003-429010 ;2003-429358 ;2003-449660 ;2003-466288 ;2003-479861 ;2003-480331

;2003-480332 ;2003-91796 ;2003-503587 ;2003-512620 ;2003-531480  
;2003-531515 ;2003-531555 ;2003-531907 ;2003-5578 ;2003-566954 ;2003-567264  
;2003-567265 ;2003-596873 ;2003-598790 ;2003-616122 ;2003-625560 ;2003-644268  
;2003-644886 ;2003-657333 ;2003-658531 ;2003-677710 ;2003-696044 ;2003-707801  
;2003-710262 ;2003-720220 ;2003-720446 ;2003-747073 ;2003-747412 ;2003-776018  
;2003-810673

ABSTRACTED-PUB-NO: US20030042314A  
BASIC-ABSTRACT:

NOVELTY - A visible laser diode mounted on an end portion of a housing, emits laser beam along axial extent of the housing. A focusing lens mounted along central bore of the housing, focuses laser beam to a predetermined focal point. A cylindrical lens placed in wedge-like recess formed at the end portion of housing, expands laser beam along a predetermined direction to produce planar laser illumination beam.

DETAILED DESCRIPTION - The method of illuminating the object and forming its' image involves producing a planar laser illumination beam onto an image detection array of CCDs.

INDEPENDENT CLAIMS are also included for the following:

- (1) planar laser illumination module (PLIM);
- (2) LED-based planar light illumination module;
- (3) incoherent planar light illumination beam generation method;
- (4) spatially-coherent planar light illumination beam generation method;
- (5) spatially-incoherent planar light illumination beam generation method;
- (6) LED-based PLIM chip;
- (7) miniature planar laser illumination module;
- (8) PLIM-based semiconductor chip;
- (9) system for illuminating object and forming image;
- (10) method of illuminating object and forming image;
- (11) object surface illuminating system;
- (12) digital image producing system;
- (13) planar laser illumination and imaging system (PLIIM);
- (14) PLIIM-based system;
- (15) under-the-conveyor belt package identification system;
- (16) hand-supportable bar code symbol reading system;
- (17) over-the-conveyor belt package identification system;
- (18) presentation-type bar code symbol reading system;
- (19) hand-supportable bar code symbol reader;
- (20) presentation-type bar code symbol reader;
- (21) over-the-conveyor and side-of-conveyor belt package identification system;
- (22) PLIIM-based semiconductor chip;
- (23) PLIIM fabrication method;
- (24) biooptical PLIIM-based product identification, dimensioning and analysis system;

- (25) bioptical PLIIM-based system;
- (26) bioptical system;
- (27) bioptical PLIIM-based product dimensioning, analysis and identification system;
- (28) PLIIM-based hand-supportable linear imager;
- (29) manually-activated PLIIM-based hand-supportable linear imager;
- (30) automatically-activated PLIIM-based hand-supportable linear imager; PLIIM-based image capture and processing engine;
- (31) manually-activated PLIIM-based hand-supportable area imager;
- (32) automatically-activated PLIIM-based hand-supportable area imager;
- (33) planar laser illumination and imaging system;
- (34) planar laser illumination and imaging method;
- (35) speckle-noise pattern power reducing method;
- (36) speckle-noise pattern power reducing apparatus;
- (37) hand-supportable imager;
- (38) linear image sensor chip mounting method;
- (39) linear image sensor chip mounting apparatus;
- (40) camera subsystem;
- (41) object identification and attribute acquisition system;
- (42) PLIIM-based object identification and attribute acquisition system;
- (43) PLIIM-based imaging system;
- (44) automated unitary-type package identification and measuring system;
- (45) laser diode optical power output control method;
- (46) laser diode optical power output controlling apparatus;
- (47) viewing angle distortion compensation method;
- (48) viewing angle distortion compensation apparatus;
- (49) real-time camera control method;
- (50) camera controller;
- (51) auto-focus/auto-zoom digital camera system;
- (52) package dimensioning and identification system;
- (53) real-time object height profiling method;
- (54) time-stamped data set processing method;
- (55) auto-focus/auto-zoom digital camera subsystem control method;
- (56) PLIIM-based imaging system control method;
- (57) graphical intelligence recognition method;
- (58) graphical intelligence recognizing apparatus;

- (59) bar coded baggage identification tag and graphical character encoded label recognition method;
- (60) captured linear image cropping method;
- (61) captured linear image cropping apparatus;
- (62) four-sided tunnel-type object identification and attribute acquisition system;
- (63) CCD camera-based tunnel system;
- (64) camera-based object identification and attribute acquisition subsystem;
- (65) angle measurement device;
- (66) data element queuing, handling, processing and linking mechanism;
- (67) stand-alone object identification and attribute information tracking and linking computer system;
- (68) system configuration manager;
- (69) system for configuring object identification and attribute acquisition system;
- (70) method for configuring object identification and attribute acquisition system;
- (71) pitch and yaw angles measuring method;
- (72) pitch and yaw angles measuring apparatus;
- (73) hand-supportable mobile-type PLIIM-based 3D digitization device;
- (74) Internet-based remote monitoring, configuration and service system;
- (75) Internet-based remote monitoring, configuration and service method;
- (76) automatic vehicle identification system;
- (77) automatic vehicle identification and classification system;
- (78) X-ray parcel scanning tunnel system;
- (79) X-ray cargo scanning-tunnel system;
- (80) PLIIM-equipped pulsed fast neutron analysis parcel scanning tunnel system;
- (81) quadrupole resonance parcel scanning-tunnel system;
- (82) airport security system;
- (83) airport system securing method;
- (84) airport system securing apparatus;
- (85) passenger transportation terminal securing method;
- (86) passenger transportation terminal securing system;
- (87) airport security screening method;
- (88) PLIIM-based passenger biometric identification subsystem;
- (89) passenger and baggage database;
- (90) hardware computing and network communication platform;
- (91) horizontal-type 3D PLIIM-based CAT scanning system; and

(92) vertical-type 3D PLIIM-based CAT scanning system.

USE - For image-based bar code symbol reading/scanning system such as handheld scanner, point-of-sale scanner, industrial-type conveyor scanning system used in unitary object attribute acquisition and analysis system (claimed) used in high-speed parcel, postal and material handling system, security system, personnel control system, airline baggage handling system, automatic checkout system installed in retail shopping environment, automatic plastic classification system, automatic surface analysis system, high-speed 3D laser proofing system, stereoscopic vision system, stroboscopic vision system, food handling equipment, food harvesting equipment, optical food sorting equipment.

ADVANTAGE - Since planar laser illumination beam is focused, reduction in power density of incident planar laser illumination beam is compensated and working distance of the PLIIM system is easily extended without increasing output power of visible laser diode. Since visible laser diode is used, size, manufacturing cost and power consumption of optical system are reduced and durability of optical system is improved.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of PLIIM-based image capture and processing engine.

ABSTRACTED-PUB-NO: US20030042314A  
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg. 60A/84

DERWENT-CLASS: S01 S02 S03 S05 T01 T04 U11 U12 U13 V07 V08 W06

EPI-CODES: S01-E02A3; S02-A03B2; S02-A03B4; S03-C02F5; S03-C03; S03-C06; S03-E04X;  
S03-E06B3; S03-E07G; S05-D01C5A; T01-J10C4B; T04-A03B; T04-A03B1; T04-D04;  
U11-C18B4; U11-C18D; U12-A01A6; U12-A01B1J; U13-A02; V07-K01; V08-A03A; V08-A04A;  
W06-B02A5;

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L7: Entry 4 of 5

File: DWPI

Mar 6, 2003

DERWENT-ACC-NO: 2003-342101

DERWENT-WEEK: 200376

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TITLE: Compact planar laser illumination module of planar laser illumination and imaging system, uses cylindrical lens for spatial modulation of laser radiated from visible laser diode to produce planar beam

INVENTOR: KNOWLES, C H; SCHNEE, M D ; TSIKOS, C J ; ZHU, X

PATENT-ASSIGNEE: METROLOGIC INSTR INC (METRN)

PRIORITY-DATA: 2002US-0161091 (May 31, 2002), 1999US-0327756 (June 7, 1999), 2000WO-US15624 (June 7, 2000), 2000US-0721885 (November 24, 2000), 2001US-0780027 (February 9, 2001), 2001US-0781665 (February 12, 2001), 2001US-0883130 (June 15, 2001), 2001US-0954477 (September 17, 2001), 2001US-0999687 (October 31, 2001), 2001US-0990585 (November 21, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030042303 A1	March 6, 2003		688	G07B015/02

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20030042303A1	June 7, 1999	1999US-0327756	CIP of
US20030042303A1	June 7, 2000	2000WO-US15624	CIP of
US20030042303A1	November 24, 2000	2000US-0721885	CIP of
US20030042303A1	February 9, 2001	2001US-0780027	CIP of
US20030042303A1	February 12, 2001	2001US-0781665	CIP of
US20030042303A1	June 15, 2001	2001US-0883130	CIP of
US20030042303A1	September 17, 2001	2001US-0954477	CIP of
US20030042303A1	October 31, 2001	2001US-0999687	CIP of
US20030042303A1	November 21, 2001	2001US-0990585	CIP of
US20030042303A1	May 31, 2002	2002US-0161091	

INT-CL (IPC): G07 B 15/02

RELATED-ACC-NO: 1992-132304;1993-117794 ;1993-188620 ;1993-243422 ;1994-271919 ;1996-010196 ;1996-087144 ;1996-231107 ;1996-433078 ;1997-212221 ;1997-271398 ;1997-319156 ;1997-341886 ;1997-434480 ;1998-322932 ;1998-322944 ;1998-322945 ;1998-361875 ;1998-398204 ;1998-446238 ;1998-466765 ;1999-010004 ;1999-044719 ;1999-152937 ;1999-214193 ;1999-244138 ;1999-443019 ;1999-477900 ;1999-493561 ;1999-539615 ;1999-619985 ;2000-037247 ;2000-072254 ;2000-086054 ;2000-115361 ;2000-236934 ;2000-524001 ;2000-524448 ;2000-532450 ;2001-031532 ;2001-102429 ;2001-181371 ;2001-256173 ;2001-265481 ;2001-280554 ;2001-281120 ;2001-366072 ;2001-450892 ;2001-521102 ;2001-589357 ;2001-601458 ;2002-048523 ;2002-054658 ;2002-146729 ;2002-256344 ;2002-338795 ;2002-381743 ;2002-393312 ;2002-414406 ;2002-425279 ;2002-518024 ;2002-519495 ;2002-546565 ;2002-588984 ;2002-589430 ;2002-616528 ;2002-759278 ;2003-038469 ;2003-038988 ;2003-045938 ;2003-056784 ;2003-208755 ;2003-310964 ;2003-331095 ;2003-331096 ;2003-353379 ;2003-370511 ;2003-402355 ;2003-402356 ;2003-416920 ;2003-429010 ;2003-429358 ;2003-439339 ;2003-449660 ;2003-466288 ;2003-479861 ;2003-480331 ;2003-480332 ;2003-491796

;2003-503587 ;2003-512620 ;2003-531480 ;2003-531555 ;2003-531907  
;2003-557833 ;2003-566954 ;2003-567264 ;2003-567265 ;2003-596873 ;2003-598790  
;2003-616122 ;2003-625560 ;2003-644268 ;2003-644886 ;2003-657333 ;2003-658531  
;2003-677710 ;2003-696044 ;2003-707801 ;2003-710262 ;2003-720220 ;2003-720446  
;2003-747073 ;2003-747412 ;2003-776018 ;2003-810673

ABSTRACTED-PUB-NO: US20030042303A  
BASIC-ABSTRACT:

NOVELTY - A cylindrical lens is mounted in a wedge-like recess at one end of a module housing that accommodates a visible laser diode (VLD) array in a bore at the other end. The lens carries out spatial modulation of the laser beam to produce planar laser beams (2878,2882).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) laser beam modulation method;
- (2) light emitting diode (LED)-based planar laser illumination module (PLIM) chip;
- (3) object illumination and imaging system;
- (4) object illumination and imaging method;
- (5) planar laser illumination and imaging module (PLIIM) based system with automatic laser beam power density compensation;
- (6) under-the-conveyor-belt package identification system;
- (7) handheld bar code scanner;
- (8) over-the-conveyor-belt package identification system;
- (9) presentation type barcode scanner;
- (10) PLIIM chip;
- (11) bio-optical PLIIM-based product identification, dimensioning and analysis (PIDA) system;
- (12) PLIIM fabrication method;
- (13) manually activated PLIIM-based handheld linear imager;
- (14) automatically activated PLIIM-based handheld linear imager;
- (15) PLIIM-based image capture and processing engine;
- (16) automatically activated PLIIM-based handheld area imager;
- (17) manually activated PLIIM-based handheld area imager;
- (18) PLIIM;
- (19) PLIIM based imaging method;
- (20) speckle noise pattern suppressor;
- (21) speckle noise pattern reduction method;
- (22) linear image sensor chip mounting method;
- (23) linear image sensor chip mounting apparatus;
- (24) camera laser system mounting linear image sensor chip;
- (25) automated package identification and measuring systems;
- (26) laser output control method;

- (27) laser output control apparatus;
- (28) viewing angle distortion compensation method;
- (29) viewing angle distortion compensation apparatus;
- (30) real-time camera control process;
- (31) camera control computer;
- (32) auto-focus/auto-zoom digital camera system;
- (33) real-time object height profiling method;
- (34) time-stamped data sets processing method;
- (35) auto-focus/auto-zoom digital camera subsystem control method;
- (36) PLIIM-based imaging system control method;
- (37) automatic graphical intelligence recognition method;
- (38) automatic graphical intelligence recognition apparatus;
- (39) bar-coded baggage identification tags and cables recognition method;
- (40) linear images cropping method;
- (41) linear images cropping apparatus;
- (42) four-sided tunnel type object identification and attribute acquisition (PID) system;
- (43) charge-coupled device (CCD) camera based tunnel system;
- (44) angle measurement device;
- (45) data element queuing, handling, processing and linking mechanism;
- (46) data element queuing, handling and processing subsystem;
- (47) stand-alone object identification and attribute information tracking and linking computer system;
- (48) object identification and attribute information tracking and linking computer;
- (49) software-based system configuration manager;
- (50) object identification and attribute acquisition system configuration method;
- (51) object identification and attribute acquisition system configuration system;
- (52) slave package identification unit pitch and yaw angles measurement method;
- (53) handheld PLIIM-based 3D digitization device;
- (54) Internet-based remote monitoring, configuration and service (RMCS) system;
- (55) Internet-based RMCS method;
- (56) automatic vehicle identification (AVI) system;
- (57) automatic vehicle classification (AVC) system;
- (58) automatic vehicle identification and classification (AVIC) system;
- (59) x-ray parcel scanning-tunnel system;

- (60) x-ray cargo scanning-tunnel system;
- (61) PLIIM-equipped pulsed fast neutron analysis (PFNA) parcel scanning tunnel system;
- (62) quadrupole resonance (QR) parcel scanning tunnel system;
- (63) airport security system;
- (64) airport security method;
- (65) airport security apparatus;
- (66) airport security screening method;
- (67) passenger and baggage database record;
- (68) horizontal type 3D PLIIM-based CAT scanning system; and
- (69) vertical type 3D PLIIM-based CAT scanning system.

USE - For PLIIM-based imaging system (claimed) used in handheld barcode scanner (claimed), presentation type barcode scanner (claimed), manual/automatically activated handheld linear/area imagers (claimed), wearable and hold-under scanners used in point-of-sales (POS) terminals in retail establishments, supermarket, for automatic check-out monitoring, for multi-sided tunnel type imaging systems (claimed), PFNA, QR parcels scanning tunnel systems (claimed) used for baggage handling, package identification and routing, individual identification and personnel control applications, material and/or object identification and inspection, boarding verification, turnstile traffic monitoring in airport, bus terminals, ocean piers, and other passenger transportation terminals, industrial facilities, educational institutions, financial institutions, game center, casino, hospital, sports stadium, etc. Also used for acquiring and analyzing physical attributes like surface reflectivity characteristics, geometrical characteristics, trajectory, labels of object like parcels, mails for identification and routing in high-speed postal facility, for identifying virus, bacterial spores, etc., in parcel and material handling industries. Also used for bio-optical PLIM-based product dimensioning, analysis and identification in retail shops, LADAR-based package imaging, graphical intelligence recognition, student identification, time/attendance verification. Also used in automatic vehicle identification and/or classification systems (claimed), horizontal and vertical type 3D PLIIM-based CAT scanning systems (claimed) used to obtain 3D models of human beings, animals and other objects. Also used for over/under the conveyor belt package identification systems (claimed), laser scanning tunnel subsystem for identifying packages carried in robotically controlled platforms, carriages in factory, for automated plastic classification system, automated road surface analysis system, rut measurement system, wood inspection system, high speed 3D laser proofing sensors, stereoscopic vision systems, stroboscopic vision systems, food handling equipment, harvester, optical food-sorting equipment, etc.

ADVANTAGE - The visible laser diodes are smaller and cheaper, draw less power, have longer lifetime and requires simpler optics. The spatial modulation of the laser beam reduces speckle noise patterns.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of the automatic vehicle identification (AVI) system.

planar laser beams 2878,2882

ABSTRACTED-PUB-NO: US20030042303A  
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.80/84

DERWENT-CLASS: T01 T04 T05 T07 U12 V08 W06 X22  
EPI-CODES: T01-C06; T01-J05A2; T01-J07B1; T01-J08A; T04-A03B1; T04-D04; T05-C03;  
T05-D01A; T05-G02B1; T05-K05; T05-L01C; T07-A01; T07-A03; U12-A01A; U12-A01B;  
U12-A01B1J; U12-A01B4; V08-A04A; V08-A07; W06-A06H1; W06-A06H8; W06-B02A; X22-X07;

[Generate Collection](#)

L5: Entry 1 of 2

File: USPT

Nov 6, 2001

US-PAT-NO: 6314406  
 DOCUMENT-IDENTIFIER: US 6314406 B1  
 \*\* See image for Certificate of Correction \*\*

TITLE: Customer information network

DATE-ISSUED: November 6, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Hagan; Timothy P.	Akron	OH		
Canda; Gregory	Tallmadge	OH		
Traxler; James E.	Bay Village	OH		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Telxon Corporation	Holtsville	NY			02

APPL-NO: 08/ 921235 [PALM]

DATE FILED: August 29, 1997

## PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of copending U.S. patent application Ser. No. 08/668,343 filed Jun. 26, 1996; U.S. patent, application Ser. No. 08/744,109 filed Nov. 5, 1996; U.S. patent application Ser. No. 08/752,301 filed Nov. 19, 1996; and U.S. patent application Ser. No. 08/770,690 filed Dec. 19, 1996.

INT-CL: [07] G6Q F 17/60

US-CL-ISSUED: 705/14; 705/26, 705/27, 345/189

US-CL-CURRENT: 705/14; 705/26, 705/27

FIELD-OF-SEARCH: 705/1, 705/14, 705/26, 235/383, 235/385, 235/375, 235/462, 340/825

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>3959624</u>	May 1976	Kaslow	
<input type="checkbox"/> <u>4323773</u>	April 1982	Carpenter	
<input type="checkbox"/> <u>4345315</u>	August 1982	Cadotte et al.	
<input type="checkbox"/> <u>4415065</u>	November 1983	Sandstedt	
<input type="checkbox"/> <u>4703423</u>	October 1987	Bado et al.	

<input type="checkbox"/>	<u>4727245</u>	February 1988	Dobbins et al.
<input type="checkbox"/>	<u>4766295</u>	August 1988	Davis et al.
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<input type="checkbox"/>	<u>4973952</u>	November 1990	Malec et al.
<input type="checkbox"/>	<u>5012349</u>	April 1991	de Fay
<input type="checkbox"/>	<u>5013387</u>	May 1991	Goodwin et al.
<input type="checkbox"/>	<u>5047614</u>	September 1991	Bianco
<input type="checkbox"/>	<u>5185695</u>	February 1993	Pruchnicki
<input type="checkbox"/>	<u>5189291</u>	February 1993	Siemiatkowski
<input type="checkbox"/>	<u>5250789</u>	October 1993	Johnsen
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<input type="checkbox"/>	<u>5640002</u>	June 1997	Rupper et al.
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<input type="checkbox"/>	<u>5650800</u>	July 1997	Benson
<input type="checkbox"/>	<u>5689101</u>	November 1997	Kikuchi et al.
<input type="checkbox"/>	<u>5708782</u>	January 1998	Larson et al.

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<input type="checkbox"/>	<u>5793029</u>	August 1998	Goodwin, III	235/483
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<input type="checkbox"/>	<u>5821513</u>	October 1998	O'Hagan et al.	235/383
<input type="checkbox"/>	<u>5822436</u>	October 1998	Rhoads	380/54
<input type="checkbox"/>	<u>5841978</u>	November 1998	Rhoads	395/200.47
<input type="checkbox"/>	<u>5859414</u>	January 1999	Grimes et al.	235/383
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FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
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0840276	February 1996	JP	
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SSDS INTER ACT SYSTEMS: SSDS Inc., and Inter-Act Systems implement new "clipless" coupon program in major grocery stores in the Northeast; Business Editors, Sep. 1996.

ART-UNIT: 212

PRIMARY-EXAMINER: Trammell; James P.

ASSISTANT-EXAMINER: Retta; Yehdega

ATTY-AGENT-FIRM: Amin & Turocy, LLP

#### ABSTRACT:

A retail customer information system which includes: at least one data processing device including a data storage adapted for selectively storing marketing data in a plurality of data fields. The customer information system also includes a portable transaction computer having a graphical user interface adapted to selectively display icon data representing data stored in the data storage. The portable transaction computer further including a random access memory; and a processor adapted to process instructions disposed in the random access memory. The retail customer information system further including a first data channel adapted for selectively communicating marketing data between the portable transaction computer and the data processing device.

30 Claims, 42 Drawing figures

Generate Collection

L5: Entry 1 of 2

File: USPT

Nov 6, 2001

DOCUMENT-IDENTIFIER: US 6314406 B1  
\*\* See image for Certificate of Correction \*\*  
TITLE: Customer information network

US Patent No. (1):  
6314406

Detailed Description Text (123):

Additionally, the CIT 14 can display customized web pages made by manufacturer's of the products on the customer's shopping list 984. Also, as the customer is walking along an aisle, for example, a proximity sensor detecting the presence of the CIT 14 could trigger the display 52 to show a web page relating to the sale of a particular product within the vicinity of the customer.

CLAIMS:

8. The shopping system of claim 1, further including optical sensors coupled to the host computer via a sub-network, the optical sensors being able to detect proximity of the portable computing device.

**End of Result Set**

**Generate Collection**

L5: Entry 2 of 2

File: USPT

Sep 2, 1997

US-PAT-NO: **5664110**  
DOCUMENT-IDENTIFIER: US 5664110 A

TITLE: Remote ordering system

DATE-ISSUED: September 2, 1997

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Green; Jonathan B.	Belmont	MA		
Pope; William R.	Cambridge	MA		

**ASSIGNEE-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Highpoint Systems, Inc.	Belmont	MA			02

APPL-NO: 08/ 351795 **[PALM]**  
DATE FILED: December 8, 1994

INT-CL: [06] **G06 F 7/06, G06 F 17/30**

US-CL-ISSUED: 705/26; 705/1, 705/27  
US-CL-CURRENT: **705/26, 705/1, 705/27**

FIELD-OF-SEARCH: 364/401, 364/406, 364/408, 364/403, 340/825.32, 340/825.35,  
235/379-383, 395/201, 395/226, 395/227**PRIOR-ART-DISCLOSED:**

U.S. PATENT DOCUMENTS

**Search Selected** **Search ALL**

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4654482</u>	March 1987	DeAngelis	379/95
<input type="checkbox"/> <u>4734858</u>	March 1988	Schlafly	364/408
<input type="checkbox"/> <u>4882475</u>	November 1989	Miller et al.	235/383
<input type="checkbox"/> <u>4897865</u>	January 1990	Canuel	379/91
<input type="checkbox"/> <u>4947028</u>	August 1990	Gorog	235/381
<input type="checkbox"/> <u>4972318</u>	November 1990	Brown et al.	364/403
<input type="checkbox"/> <u>4984155</u>	January 1991	Geier et al.	364/401
<input type="checkbox"/> <u>5023904</u>	June 1991	Kaplan et al.	379/91
<input type="checkbox"/> <u>5047614</u>	September 1991	Bianco	235/385
<input type="checkbox"/> <u>5117354</u>	May 1992	Long et al.	364/401
<input type="checkbox"/> <u>5195130</u>	March 1993	Weiss et al.	379/98
<input type="checkbox"/> <u>5250789</u>	October 1993	Johnsen	235/383
<input type="checkbox"/> <u>5319542</u>	June 1994	King, Jr. et al.	364/401

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Fergenoff, "CD-ROM Comes home=Bell Atlantic's intelligent home of the 21st century. (home-based information services", CD-ROM News Extra, v. 1, n. 6, p. 16(4), Dec. 1993, Dialog File 148, Acc. #06795500.  
 "Thomas Unveils Online Purchasing Network (Thomas Publishing introduces Connects electronic corporate purchasing network for industrial products", Electronic Buyers News, p.60, Dec. 11, 1995, Dialog file 9, Acc. No. 01355145.  
 Bethoney, "Made to order for online catalogs (iCat's Electronic commerce suite . . . )", PC Week, vol. 13, No. 45, p.80(1), Nov. 11, 1996, Dialog file 47 Acc. No. 04634978.  
 Staten, "iCat to do Net commerce. (Interactive Catalog's iCat Electronic Commerce Suite) . . . ", MacWeek, v. 10, n. 17, p.18(2), Apr. 29, 1996, Dialog file 148, Acc. No. 08633302.

ART-UNIT: 241

PRIMARY-EXAMINER: Hayes; Gail O.

ASSISTANT-EXAMINER: Poinvil; Frantzy

ATTY-AGENT-FIRM: Weingarten, Schurgin, Gagnebin & Hayes LLP

#### ABSTRACT:

A remote ordering system provides a user the ability to build and edit one or more order lists, resident in memory within a user device, and the further ability to review and manipulate a user interpretable display of the contents of such lists. A system comprising merchant stock databases, a data format/transfer computer (DFTC), and display/processor units (DPUs) (the user devices) enable creation and transmission of the order lists. Coded data read into each DPU identifies items to be added to the order lists. A DPU database contains user-discernable item information stored according to the associated coded data and is capable of learning new or updating old item information when in communication with the merchant database. Item information can be automatically or manually deleted to free DPU memory.

75 Claims, 16 Drawing figures